

Answer the following questions:

- (1) What is SCADA? Give an example to explain how SCADA systems work?
- (2) Explain what is meant by the following:
Polymorphic code – Virus self-modification – Stealth – cavity viruses
– Cyclic redundancy checks – Resident viruses.
- (3) What are the goals of green technology?
- (4) Make up the HTML document that will give the following table:

DRILL SPEEDS					
	MATERIALS	DIAMETER IN INCHES	CUTTING SPEED		RPM
			Feet	Metres	
1.	<u>Brass</u>	2.5	350		560
2.	<u>Cast iron</u>	4.5		69	201
3.	<u>Copper</u>	1	300		1200
4.	<u>Stainless Steel</u>	3.625		46	167

Design a photo background for your page. Make your design jump to another webpage when you press each of the underlined words.

- (5) What is cloud computing? Explain the basic types of cloud computing?
- (6) Write a Matlab function 'check' that takes a vector as input and prints an error message unless every component is nonzero?
- (7) Write a Matlab function to evaluate the function $y = \sin^2(x^2)$. Plot the function.

(8) What is the output that is generated from the following Latex code:

```
\title{A Very Simple \LaTeX{} Template}
\author{
  2nd year student \\
  Department of Computers & Control Science\\
  Tanta University\\
  Tanta City, \underline{Egypt}
}
\date{\today}

\documentclass[12pt]{article}

\begin{document}
\maketitle

\begin{abstract}
This is the paper's abstract
\end{abstract}

\section{Introduction}
This is time to work hard.

\begin{equation}
\label{eq5}
C(A)=\sum_{s=1}^nb_s(G_s)
\end{equation}

Section~\ref{previous work} gives account of previous work.
Our new and exciting results are described in Section~\ref{results}.
Finally, Section~\ref{conclusions} gives the conclusions.

\section{Previous work}\label{previous work}
A much longer \LaTeX example was written by Gil~\cite{Gil:02}.

\begin{itemize}
\item  $\$F\$$  is a partial-ordering of  $\$E\$$ .
\item For any  $\$e \in E\$$ ,  $\$v\$$  is well-ordering.
\end{itemize}

\section{Results}\label{results}
In this section we describe the results.

\section{Conclusions}\label{conclusions}
We worked very hard.

\bibliographystyle{abbrv}
\bibliography{main}

\end{document}
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Good Luck

Dr. Ahmed Elmogy